Synology®

DX1211 User's Guide

For Synology DiskStation DX1211

DX121104122011

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CHAPTER 1

Get Started with DX1211

Congratulations on your purchase of Synology DX1211. This product is specially designed for the storage expansion of Synology DiskStation DS2411+ and DS3611xs. This user's guide will guide you through the installation.

Package Contents

Before installation, please check the package contents to verify that you have received the items below.

Main Unit x 1

AC Power Cord x 1

User's Guide x 1

Screws for 3.5" Hard Drives x 52

Screws for 2.5" Hard Drives x 52

Expansion Cable (Infiniband x 1)

Hardware Specifications

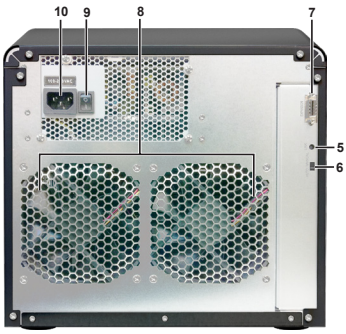
Internal HDD	12X SATA(II)
EXPANSION Port #	1X Infiniband
Max Capacity (Internal HDD)	12X 3TB
Hot Swappable HDD	Yes
Size (HxWxD) (mm)	270 X 300 X 340 mm
Weight	9.73 kg
System Fan	2X (120x120mm)
Power Fan	1X (120x120mm)
Power Recovery	Sync with server
AC Input Power Voltage	100V to 240V AC
Power Frequency	50 / 60Hz, Single Phase
Operating Temperature	5°C ~ 35°C (40°F ~ 95°F)
Storage Temperature	-10°C ~ 70°C (15°F ~ 155°F)
Relative Humidity	5% to 95% RH
Maximum Operating Altitude	6,500 feet
Certification	FCC Class B, CE Class B, BSMI Class B

Operating Requirements

Synology DiskStation	DS2411+ and DS3611xs with Synology DSM 3.1 and onwards

Appearance

Back View



Front View

	Article Name	Description
1	**POWER Button**	The POWER button is used to turn DX1211 on or off. Press and hold the button for 7 seconds to shut down DX1211. ***Note:*** The POWER button only works when you slide the AUTO/MANUAL switch (No. 6) to MANUAL.
2	**LED Indicators**	The LED indicators are used to display the status of the system. For complete details, please refer to the next table: ***LED Behavior***.
3	**Hard Drive Tray Lock**	The hard drive tray lock is designed for locking/unlocking the trays to the expansion unit.
4	**Hard Drive Trays**	The hard drive trays are designed for loading the hard drives with DX1211.
5	**RESET Button**	The RESET button is used to restore the settings to the factory default.
6	**AUTO/ MANUAL Switch**	The AUTO/MANUAL switch is used to enable or disable automatic power on/off. If it is set to AUTO, DX1211 will be turned on or off automatically when the connected DiskStation powers on or off.
7	**EXPANSION Port**	The EXPANSION port is used to connect DX1211 to DiskStation.
8	**Fan**	The power fans are built to exhaust waste heat out of the power supply. The system fans (inside DX1211) are built to exhaust waste heat out of DX1211. If the fan is not working, DX1211 will “beep” every few seconds.
9	**Power Supply On/Off Switch**	The power supply on/off switch is used to turn on/off the power supply.
10	**Power Port**	The power port is where you connect the power cord to DX1211.

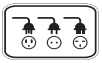
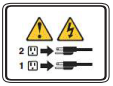
LED Behavior

LED	Behavior	Description
STATUS	**Solid Green**	System is functioning
	Solid Orange	Disk is crashed; volume is degraded/crashed; no internal disk
	Off	HDD Hibernation
LINK	**Solid Green**	Synology DiskStation is connected
	Off	Synology DiskStation is disconnected
ALERT	**Flashing Orange**	System fan is not working
	Off	System fan is functioning

LED	Behavior	Description
RAID	Solid Green	Volume is created
	Flashing Green	Volume is degraded
	Off	Volume is crashed or not created
Activity (On Tray)	Flashing Green	Disk is being accessed
Hard Disk Status (On Tray)	Solid Green	Disk is ready and idle
	Solid Orange	Read/write or other errors are encountered
	Off	No internal disk is found

Safety Instructions

To use your Synology product safely, please follow these instructions and warnings at all time.

	Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.
	Do not place the Synology product close to any liquid.
	Before cleaning, unplug the power cord first. Wipe Synology product with damp paper towels. Do not use chemical or aerosol cleaners to clean it.
	Do not place the Synology product on a cart, table, or desk, which is not stable to avoid the product from falling over.
	The power cord must plug in to the right supply voltage. Make sure that the supplied AC voltage is correct and stable.
	To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.

CHAPTER 2

Set Up DX1211

Tools and Parts for Hard Disk Installation

- A screwdriver
- At least one 3.5” or 2.5” SATA hard disk
  (Please visit **www.synology.com** for compatible hard disk models.)

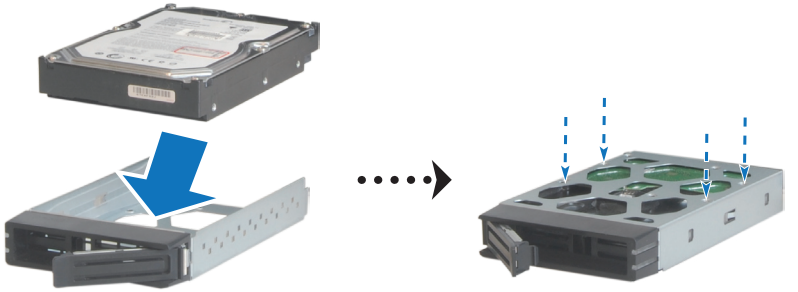
Warning: If you install a hard disk that contains data, system will format the hard disk and erase all data. If you need the data in the future, please back it up before installation.

Install Hard Disks

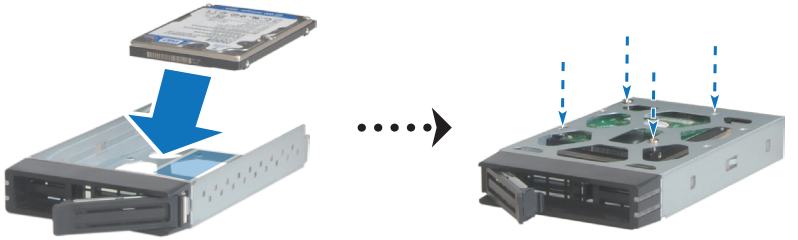
1 Pull the hard drive tray handle in the direction as indicated below to remove the hard drive tray.

2 Load the hard disk in the hard drive tray.

- ***For 3.5" Hard Disk:*** Place the hard disk in the hard drive tray, and then tighten the screws to secure the hard disk.



- ***For 2.5" Hard Disk:*** Place the hard disk in the hard drive tray, turn the tray upside down, and then tighten the screws to secure the hard disk.



3 Insert the loaded hard drive tray into the empty hard drive bay.

> ***Important:*** Make sure the tray is pushed in all the way. Otherwise, the hard disk might not be able to function properly.

4 Push the clip to fix the hard drive tray.

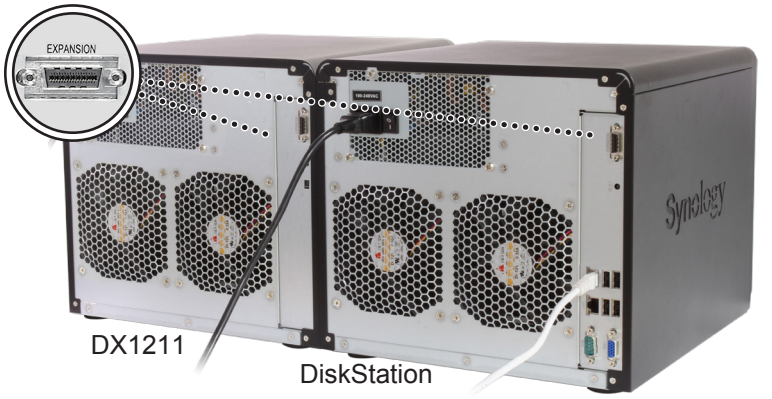
5 Repeat the steps above to assemble all hard disks you have prepared.

> ***Note:*** If you want to set up a RAID set, it is recommended that all installed hard disks are of the same size to make the best use of hard disk capacity.

Connect with Synology DiskStation

1 Connect one end of the power cord(s) to the power port of RX1211/RX1211RP, and the other to the power outlet(s).

2 Connect one end of the expansion cable to DX1211, and the other to DiskStation.



3 Turn on DX1211:

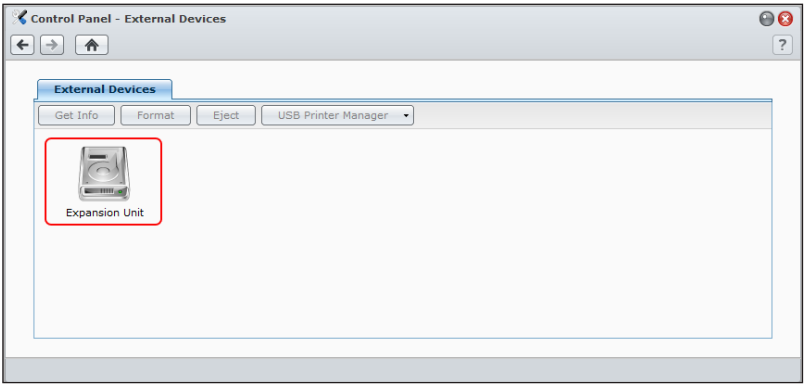
- ***If the AUTO/MANUAL switch is set to AUTO,*** DX1211 will be turned on or off automatically when the connected DiskStation powers on or off.

- ***If the AUTO/MANUAL switch is set to MANUAL,*** press the POWER button to turn on RX1211/RX1211RP.

Note: To prevent unexpected volume crash, it is recommended that you set the AUTO/MANUAL switch to AUTO.

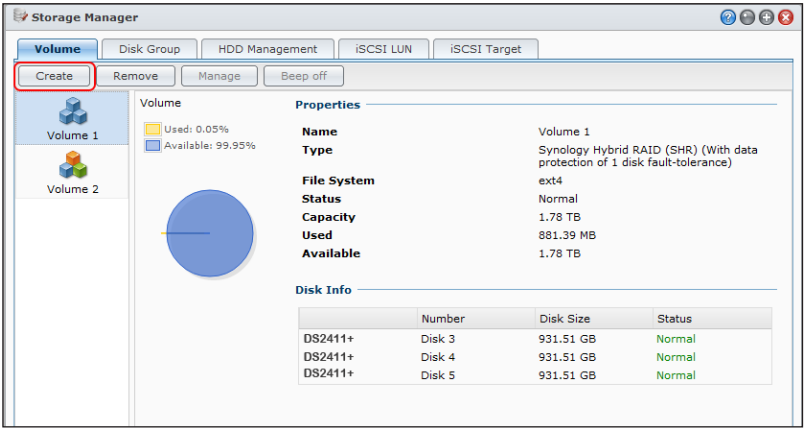
Work with DiskStation

1 Log in to DiskStation Manager with a web browser. Go to **Main Menu** > **Control Panel** > **External Devices** to confirm DX1211 is connected to your DiskStation.

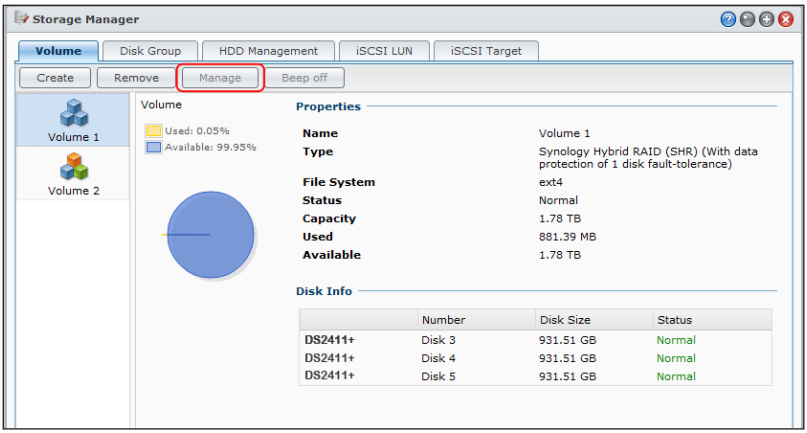


2 Go to **Main Menu** > **Storage Manager** to manage DX1211 for storage creation or expansion.

- ***If you want to create a new volume with DX1211,*** click **Create** and follow the Volume Creation Wizard to complete the creation.



- ***If you want to expand the existing volume with DX1211,*** select the volume you want to expand from the volume list, click **Manage**, and follow the Volume Manager Wizard to complete the expansion.



For detailed information about volume management, go to **Main Menu** > **Storage Manager** and see the help page by clicking the **Help** button at the top-right corner.

Limitations: Before starting to use DiskStation with DX1211 please see the following limitations of DX1211.

- DX1211 can be paired with only one DiskStation.
- The data of applications (such as Photo Station and Audio Station) can be stored on DX1211 only if you create an expanded volume with it. They will not be stored on DX1211 if you create a new volume with it.
- Hard drives previously used in DiskStation will not be readable by directly inserting them into DX1211, and vise versa.

Learn More

Congratulations! Your DX1211 is set up now. For more information or online resources about DX1211, please visit **www.synology.com**.

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Section 2. Limited Warranty and Remedies

2.1 Limited Warranty. Subject to Section 2.7, Synology warrants to Customer that each Product (a) will be free of material defects in workmanship and (b) under normal use will perform substantially in accordance with Synology's published specifications for the Product during the Warranty Period. Synology warrants the Software as set forth in the accompanying end user license agreement provided with the Product, if any.

2.2 Product Registration. Customers may register Products with Synology and may obtain the manufacturing date for Category I Products, Category II Products and Category III Products at the Web Site. The failure to register a Product at the Web Site will not diminish the warranty rights set forth in Section 2.1. Synology is not responsible for Customer's failure to identify the manufacturing date of any Product.

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number prominently displayed on the outside of the box. Customer is responsible for insurance and risk of loss with respect to returned items until they are properly received by Synology. A Product issued a RMA number must be returned within fifteen (15) days after issuance of the applicable RMA number.

2.5 Replacement by Synology. If Synology elects to replace any Product under this Warranty set forth in Section 2.1, then Synology will ship a replacement Product at Synology's expense via the shipping method selected by Synology after receipt of the nonconforming Product returned in accordance with Section 2.4 and validation by Synology that the Product does not conform to the warranty. Replacement Product will be new or serviceably used, comparable in function and performance to the original Product and warranted for the remainder of the original Warranty Period or thirty (30) days after it is shipped to Customer, whichever period is longer Any Product found by Synology to be non-defective will be returned to Customer.

2.6 Support. During the Warranty Period, Synology will make available to Customer the support services. Following the expiration of the applicable Warranty Period, support for Products may be available from Synology upon written request.

2.7 Exclusions. The foregoing warranties and warranty obligations do not apply to any Product that (a) has been installed or used in a manner not specified or described in the Product specifications; (b) has been repaired, modified or altered by anyone other than Synology or its agent or designee; (c) has been in any way misused, abused, or damaged; (d) has been used with items not provided by Synology other than the hardware or software for which the Product is designed; or (e) otherwise fails to conform to the Product specifications and such failure is attributable to causes not within or under Synology's control. Further, the foregoing warranties will be void if (1) Customer disassembles the Product except as authorized by Synology; (2) Customer fails to implement any correction, modification, enhancement, improvement or other update made available to Customer by Synology; or (3) Customer implements, installs or uses any correction, modification, enhancement, improvement or other update made available by any third party. The warranty set forth in Section 2.1 will terminate upon Customer's sale or transfer of the Product to a third party.

2.8 Disclaimer of Warranties. THE WARRANTIES, OBLIGATIONS, AND LIABILITIES OF SYNOLOGY AND THE REMEDIES OF CUSTOMER SET FORTH IN THIS WARRANTY ARE EXCLUSIVE AND IN SUBSTITUTION FOR, AND CUSTOMER HEREBY WAIVES, RELEASES AND DISCLAIMS, ALL OTHER WARRANTIES, OBLIGATIONS AND LIABILITIES OF SYNOLOGY AND ALL OTHER RIGHTS, CLAIMS AND REMEDIES OF CUSTOMER AGAINST SYNOLOGY, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO THE PRODUCT, ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES DELIVERED UNDER THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO ANY: (A) IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE; (B) IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE; (C) CLAIM OF INFRINGEMENT OR MISAPPROPRIATION; OR (D) CLAIM IN TORT (WHETHER BASED ON NEGLIGENCE, STRICT LIABILITY, PRODUCT LIABILITY OR OTHER THEORY). SYNOLOGY MAKES NO GUARANTEE AND SPECIFICALLY DISCLAIMS ANY WARRANTY THAT THE DATA OR INFORMATION STORED ON ANY SYNOLOGY PRODUCT WILL BE SECURE AND WITHOUT RISK OF DATA LOSS. SYNOLOGY RECOMMENDS THAT CUSTOMER TAKES APPROPRIATE MEASURES TO BACK UP THE DATA STORED ON THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO CUSTOMER.

Section 3. Limitations of Liability

3.1 Force Majeure. Synology will not be liable for, or be considered to be in breach of or default under this Warranty on account of, any delay or failure to perform as required by this Warranty as a result of any cause or condition beyond its reasonable control (including, without limitation, any act or failure to act by Customer).

3.2 Disclaimer of Certain Damages. IN NO EVENT WILL SYNOLOGY OR ITS SUPPLIERS BE LIABLE FOR THE COST OF COVER OR FOR ANY INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL OR SIMILAR DAMAGES OR LIABILITIES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO LOSS OF DATA, INFORMATION, REVENUE, PROFIT OR BUSINESS) ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY EVEN IF SYNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3.3 Limitation of Liability. SYNOLOGY'S AND ITS SUPPLIERS' LIABILITY ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY IS LIMITED TO THE AMOUNT ACTUALLY PAID BY CUSTOMER FOR THE PRODUCT REGARDLESS OF THE AMOUNT OF DAMAGES CUSTOMER MAY INCUR AND WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY. The foregoing disclaimer of certain damages and limitation of liability will apply to the maximum extent permitted by applicable law. The laws of some states/jurisdictions do not allow

exclusion or limitation of certain damages. To the extent that those laws apply to the Product, the exclusions and limitations set forth above may not apply to Customer.

Section 4. Miscellaneous

4.1 Proprietary Rights. The Product and any accompanying Software and documentation provided with the Product include proprietary and intellectual property rights of Synology and its third party suppliers and licensors. Synology retains and reserves all right, title, and interest in the intellectual property rights of the Product, and no title to or ownership of any intellectual property rights in or to the Product, any accompanying Software or documentation and any other goods provided under this Warranty is transferred to Customer under this Warranty. Customer will (a) comply with the terms and conditions of the Synology end user license agreement accompanying any Software furnished by Synology or an authorized Synology distributor or reseller; and (b) not attempt to reverse engineer any Product or component thereof or accompanying Software or otherwise misappropriate, circumvent or violate any of Synology's intellectual property rights.

4.2 Assignment. Customer will not assign any of its rights under this Warranty directly, by operation of law or otherwise, without the prior written consent of Synology.

4.3 No Additional Terms. Except as expressly permitted by this Warranty, neither party will be bound by, and each party specifically objects to, any term, condition or other provision that conflicts with the provisions of this Warranty that is made by the other party in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, unless each party specifically agrees to such provision in writing. Further, if this Warranty conflicts with any terms or conditions of any other agreement entered into by the parties with respect to the Product, this Warranty will prevail unless the other agreement specifically references the sections of this Warranty that it supersedes.

4.4 Applicable Law. Unless expressly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. without regard to any conflict of law principles to the contrary. The 1980 U.N. Convention on Contracts for the International Sale of Goods or any successor thereto does not apply.

4.5 Dispute Resolution. Any dispute, controversy or claim arising out of or relating to this Warranty, the Product or services provided by Synology with respect to the Product or the relationship between Customers residing within the United States and Synology will be resolved exclusively and finally by arbitration under the current commercial rules of the American Arbitration Association, except as otherwise provided below. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute between Customer and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall be held in King County, Washington, U.S.A. by submission of documents, by telephone, online or in person as determined by the arbitrator at the request of the parties. The prevailing party in any arbitration or legal action occurring within the United States or otherwise shall receive all costs and reasonable attorneys' fees, including any arbitration fee paid by the prevailing party. Any decision rendered in such arbitration proceedings will be final and binding on the parties, and judgment may be entered thereon in any court of competent jurisdiction. Customer understands that, in the absence of this provision, Customer would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and Customer expressly and knowingly waives those rights and agrees to resolve any disputes through binding arbitration in accordance with the provisions of this Section 4.5. For Customers not residing within the United States, any dispute, controversy or claim described in this section shall be finally resolved by arbitration conducted by three neutral arbitrators in accordance with the procedures of the R.O.C. Arbitration Law and related enforcement rules. The arbitration shall take place in Taipei, Taiwan, R.O.C., and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese. The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this Warranty relating to Synology's intellectual property rights.

4.6 Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this Warranty, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.

4.7 Export Restrictions. You acknowledge that the Product may be subject to U.S. export restrictions. You will comply with all applicable laws and regulations that apply to the Product, including without limitation the U.S. Export Administration Regulations.

4.8 Severability. If any provision of this Warranty is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this Warranty will remain in full force and effect.

4.9 Entire Agreement. This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.

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